



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE.

Applicant: MICHEAL L. GRUENBERG

Serial No.: 08/700,565

Filed: July 25, 1996

For: AUTOLOGOUS IMMUNE CELL  
THERAPY: CELL COMPOSITIONS,  
METHODS AND APPLICATIONS TO  
TREATMENT OF HUMAN DISEASE

Art Unit: formerly 1816

Examiner: Schwadron, R

I hereby certify that this paper and the attached  
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Assistant Commissioner for Patents  
Washington, D.C. 20231, on this date.

11/05/98  
Date

Stephanie Seidman

SUPPLEMENTAL AMENDMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Responsive to the Communication, mailed October 27, 1998, please  
amend the above-captioned application as follows:

IN THE CLAIMS:

Please amend claim 1 as follows:

1. (Amended) A method for generating a high density of clinically relevant numbers of T lymphoid [immune] cells, comprising:
- collecting material comprising body fluid or tissue containing mononuclear cells from a mammal; and
- contacting, in the absence of exogenous interleukin-2, the material with [one] two or more activating proteins specific for cell surface proteins present on cells in the material and in an amount sufficient to induce ex vivo cell expansion, whereby the cells expand to clinically relevant numbers at a density of at least about  $10^9$  cells in a volume of about a liter [ to clinically relevant numbers].